

Fungi Endoplasmic Reticulum Tracker 5 small molecule (tool compound)

Catalogue number: 157733

Sub-type: Fluorescent Probe

Images:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Fungi Endoplasmic Reticulum Tracker 5 small molecule (tool compound)

Alternate name:

Class:

Conjugate:

Description: In fungal cells, the endoplasmic reticulum (ER) harbours several of the enzymes involved in the biosynthesis of ergosterol, an essential membrane component, making this organelle the site of action of antifungal azole drugs, used as a first-line treatment for fungal infections. This marker provides specific fluorescent labelling of this organelle in cells of live pathogenic fungi. Specifically, the marker is an antifungal azole-based fluorescent tracking reagent of the ER in live fungal cells...

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype:

Reactivity:

Selectivity: Highly specific for Endoplasmic Reticulum.

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes: This tracker is optimised for use in fungi, not mammalian or plant cells and has shown superiority to other commercially available ER trackers. It has been evaluated in a panel of *Candida*, including *C. albicans* and *C. glabrata* which are considered the two most common fungal pathogens relevant to human infection. There is weak background signal and high specificity. PMID: 30427174

Target details

Target:

Target alternate names:

Target background:

Molecular weight: 550.2014

Ic50:

Applications

Application: Tracking of the ER in live fungal cells (e.g. *Candida*).

Application notes:

Handling

Format:

Concentration:

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions: -15° C to -25° C, light protection

Shipping conditions:

Related tools

Related tools:

References

References: Benhamou et al. 2018. ACS Chem Biol. 13(12):3325-3332. PMID: 30427174.

CancerTools.org